

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An optical module comprising:  
a housing having a lower casing integrating with a receptacle for mating with an optical connector and a mount, an upper casing being engaged with the lower casing; and a cover for covering the upper casing;  
~~a block mounted on the lower casing;~~  
an optical sub-assembly having leads and mounted on the block, the optical sub-assembly being optically coupled with ~~the~~ an optical connector mated with the receptacle; ~~and~~  
a block mounted on the lower casing and including a mounting portion for mounting the optical sub-assembly, a substrate supporting portion for supporting the substrate, and a substrate pressing portion for pressing the substrate; and  
a substrate mounted on the mount of the lower casing ~~and held by the block~~, the substrate being electrically connected to the leads of the optical sub-assembly,  
wherein the block holds the optical sub-assembly ~~and substrate, and~~ defines relative positions of the lower casing and the upper casing, and  
wherein the substrate supporting portion and the substrate pressing portion holds the substrate by sandwiching the substrate therebetween.
2. (Cancelled)
3. (Cancelled)

4. (Currently Amended) The optical module according to claim 3 1, wherein the block further includes a center wall and a pair of side walls disposing the center wall therebetween,

the center wall providing the substrate supporting portion and each of the pair of side walls providing the substrate pressing portion.

5. (Previously Presented) The optical module according to claim 14, wherein the lower casing has a projection on the mount for holding the block between a side face of the projection and the surface of the receptacle such that the surface of the block abuts against the surface of the receptacle.

6. (Currently Amended) The optical module according to claim 14, wherein the block provides a first cutout, the lower casing provides a second cutout, and the upper casing provides first and second protrusions for engaging with the first and second cutouts, respectively, such that the surface of the block abuts the surface of the receptacle.

7. (Currently Amended) The optical module according to claim 6, wherein the block includes a mounting portion for mounting the optical ~~device~~ sub-assembly, a center wall, and a pair of side walls for providing the first cutout, the side walls disposing the center wall therebetween, the mounting portion being disposed between the center wall and one side wall.

8. (Previously Presented) The optical module according to claim 6, wherein the second cutout is formed in a side wall of the lower casing.

9. (Previously Presented) The optical module according to claim 14, wherein the upper casing includes a projection and the block includes a center wall with a cutout,

the projection being in contact with a cross section of the cutout such that the surface of the block abuts against the surface of the receptacle.

10. (Previously Presented) The optical module according to claim 14, further comprising a holder for holding the optical sub-assembly for surrounding the optical sub-assembly such that the holder holds the optical sub-assembly with respect to the block.

11. (Previously Presented) The optical module according to claim 1, wherein the block is made of a resin.

Claim 12. (Cancelled)

Claim 13. (Cancelled)

14. (Previously Presented) The optical module according to claim 1,

wherein the receptacle of the lower casing has a surface with an opening for abutting against a surface of the block with an opening corresponding to the opening provided in the surface of the receptacle, the optical sub-assembly passing the opening of the surface of the receptacle and the opening of the block therethrough.

15. (Currently Amended) An optical module comprising:

an optical sub-assembly having leads and mounted with an optical device;

a substrate electrically connected to the leads of the optical sub-assembly;

a resin block including a front wall with an opening to pass one end of the optical sub-assembly therethrough, a center wall with a substrate supporting portion and a first cutout, and a pair of side walls disposing the center wall therebetween, each of the side walls providing a substrate pressing portion for pressing the substrate and a second cutout, the substrate supporting portion and the substrate pressing portion holding the substrate by sandwiching the substrate therebetween;

a lower ~~casing~~ casing having a receptacle for receiving an optical connector holding an optical fiber and a mount for mounting the substrate, the receptacle providing a surface with an opening for passing the one end of the optical sub-assembly therethrough, the mount providing a projection for sandwiching the block with the surface of the receptacle such that the front wall of the block abuts against the surface of the receptacle, the lower casing providing a third cutout in a side wall thereof; and

an upper casing providing a first protrusion to engage with the first cutout provided in the side wall of the resin block, a second protrusion to engage with the third cutout provided in the side wall of the lower casing, and a third protrusion to engage with the second cutout provided in

the center wall of the resin block such that the front wall of the resin block abuts against the surface of the receptacle.

16. (Previously Presented) A method for manufacturing an optical module including an optical sub-assembly, a block, a substrate, a lower casing and an upper casing, the method comprising steps of:

(a) mounting the optical sub-assembly on the block such that a leading end of the optical sub-assembly passes an opening provided in a front wall of the block therethrough;

(b) securing the substrate to the block such that a substrate supporting portion provided in a center wall of the block and a substrate pressing portion provided in a side wall of the block sandwiches the substrate therebetween;

(c) electrically connecting the substrate with leads of the optical subassembly;

(d) installing the block mounting the optical sub-assembly connected with the substrate into the lower casing including a receptacle such that the leading end of the optical subassembly passing the opening of the block enters an opening formed in a surface of the receptacle; and

(e) securing the upper casing with the lower casing such that the front wall of the block abuts against the surface of the receptacle.